

A.P.I. # 15-065-23862-00-00

GEOLOGICAL REPORT  
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC  
 LEASE White-Worcester Unit # 1-11  
 FIELD \_\_\_\_\_  
 LOCATION 330' ENL + 105' FEL  
 SEC 11 TWSP 7S RGE 22W  
 COUNTY Graham STATE Kansas

ELEVATION  
 KB 2203'  
 DF 2201'  
 GL 2198'  
 Depths Measured From  
 Log KB Drilling KB

CONTRACTOR W/W Drilling Rig # 8  
 SPUD 10-2-12 COMP 10-9-12  
 SAMPLES SAVED FROM 3170' TO R.T.D.

CASING  
 Surface 8 5/8" @ 218'  
 Production 5 1/2" @ 1831'  
 ELECTRIC LOGS  
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>2. log</u>				
<u>Anhydrite</u>	<u>1830</u>	<u>1825 +</u>	<u>378</u>	<u>+ 368</u>			
<u>Base Anhydrite</u>	<u>1861</u>	<u>1857 +</u>	<u>346</u>	<u>+ 336</u>			
<u>Topeka</u>	<u>3201</u>	<u>3200 -</u>	<u>997</u>	<u>- 995-1004</u>			
<u>Heebner</u>	<u>3397</u>	<u>3396 -</u>	<u>1193</u>	<u>-1195-1203</u>			
<u>Toronto</u>	<u>3425</u>	<u>3424 -</u>	<u>1221</u>	<u>-1220-1225</u>			
<u>Lansing</u>	<u>3440</u>	<u>3439 -</u>	<u>1236</u>	<u>-1234-1242</u>			
<u>Base Kansas City</u>	<u>3631</u>	<u>3630 -</u>	<u>1427</u>	<u>-1422-1427</u>			
<u>Warmatan</u>	<u>3672</u>	<u>3671 -</u>	<u>1468</u>	<u>-1465-1470</u>			
<u>Arbuckle</u>	<u>3737</u>	<u>3636 -</u>	<u>1533</u>	<u>-1540</u>			
<u>Total Depth</u>	<u>3764</u>	<u>3763 -</u>	<u>1560</u>	<u>-1578-1558</u>			

REFERENCE WELLS

- <sup>a</sup> Baird O. Co. LLC, White #1-11, 710' ENL + 1230' FEL Sec. 11-7S-22W
- <sup>b</sup> Black Diamond O. Co. Inc., White #1, 470' ENL + 1900' FEL Sec. 11-7S-22W
- <sup>c</sup>
- <sup>d</sup>



REMARKS

This well ran 2 feet lower to 6 feet higher on the casing top than the reference wells. After evaluating all data it was decided production casing would be cemented to the Anhydrite. The well will be used for saltwater disposal.

Richard B. Bell  
10-19-12

7502

LEGEND

- 

Anhydrite
- 

Salt
- 

Sandstone
- 

Shale
- 

Carb sh
- 

Limestone
- 

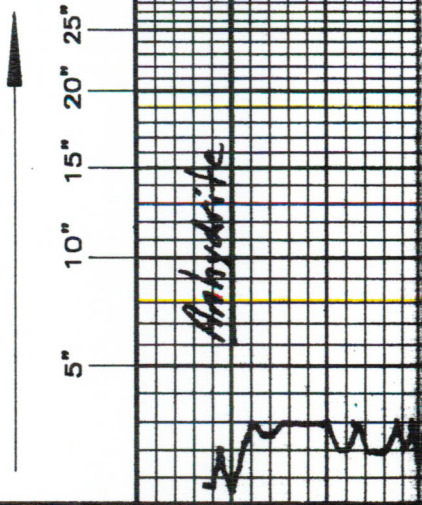
Ool. Lime
- 

Chert
- 

Dolomite

DRILLING TIME IN MINUTES  
PER FOOT

Rate of Penetration Decreases



DEPTH

1020

40

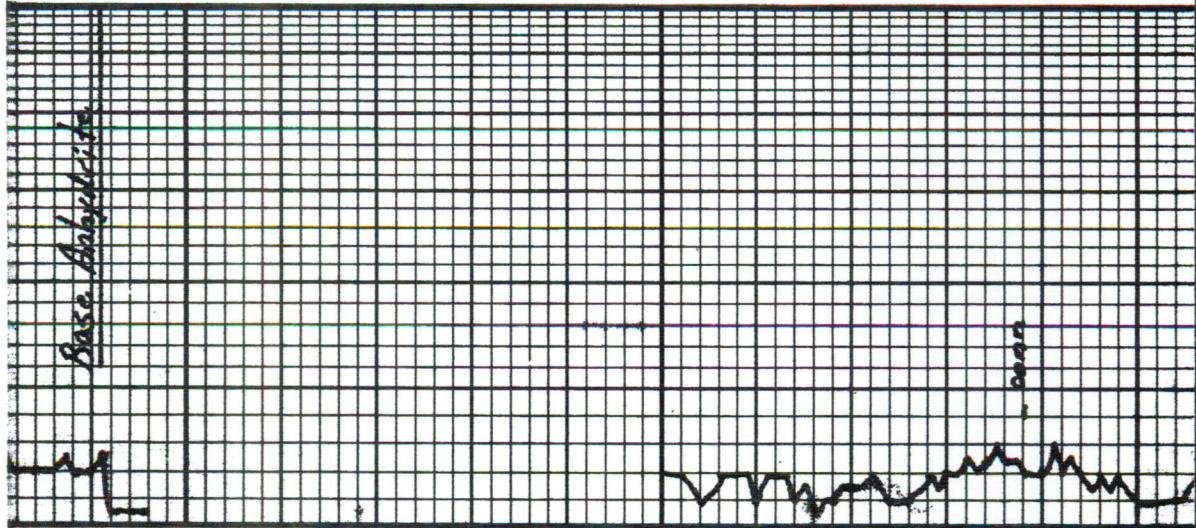
LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

LOG 7710



60

3100

20

40



Shi 906 Tr. 600 5th

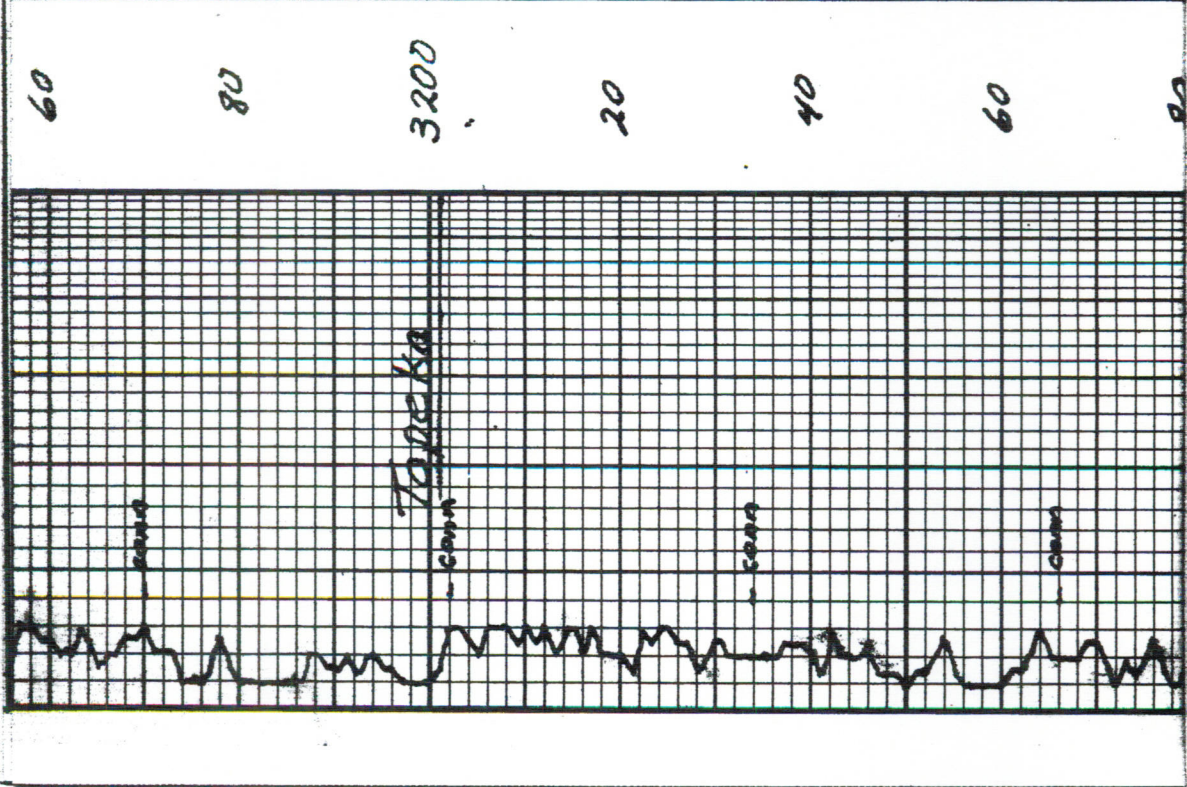
11 P. 11 1st

Samples are lagged  
good samples





60	LS: wh to cky - fs/f dms	can. l. s. m. w. l. s. g. v. s. e. s. r.
80	sh: gry, brn, yel	
3200	LS: wh to cky - fs/f dms	
20	LS: wh to cky - fs/f dms	
40	LS: wh to cky - fs/f dms	
60	LS: wh to cky - fs/f dms	
80	LS: wh to cky - fs/f dms	



can. l. s. m. w. l. s. g. v. s. e. s. r.

LS: wh to cky - fs/f dms

sh: gry, brn, yel

LS: wh to cky - fs/f dms

LS: wh to cky - fs/f dms

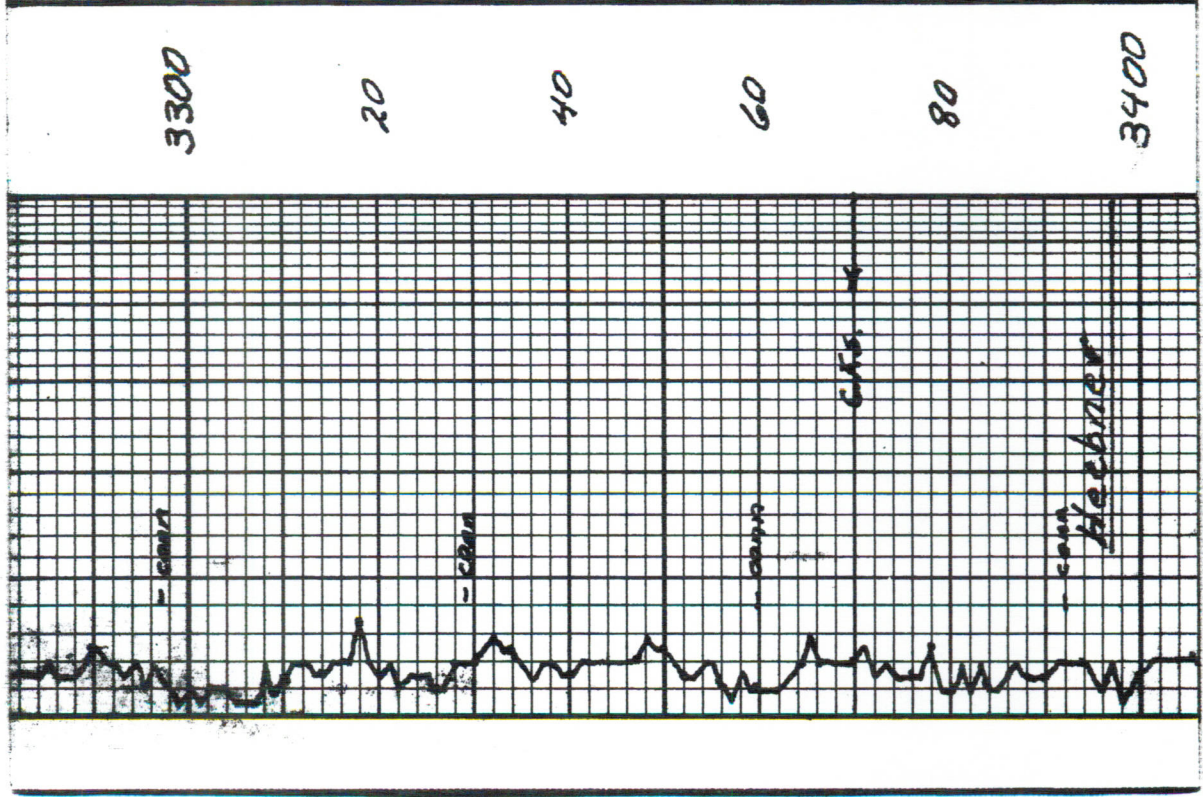
LS: wh to cky - fs/f dms

LS: wh to cky - fs/f dms

LS: wh to cky - fs/f dms

LS: wh to cky - fs/f dms

3300	<p>LS: wh to fx in dns</p> <p>LS: wh to tr. cky - Suc - fcln ppp NS.A T A wh to</p> <p>sh - brn, gry</p> <p>LS: wh to fx in Tr. oöl ppp NS.O. Tr D wh or Sh: BIK Carb LS: tr - gry fsl f dns</p> <p>LS: wh to fx in sl. oöl tr. ppc spks tr. fr. sept d Q Sta Tr pp fo. fr ad or</p> <p>LS: wh to sl cky - fcln dns NS.O.</p> <p>LS: wh to cky - fcln sl. oöl w sl. fass. incl us. ppp NS.C. Tr A wh</p> <p>ag. Sh: gry</p> <p>LS: a a</p> <p>Sh: BIK Carb.</p> <p>LS: tr - gry fsl f dns</p>
20	
40	
60	
80	
3400	

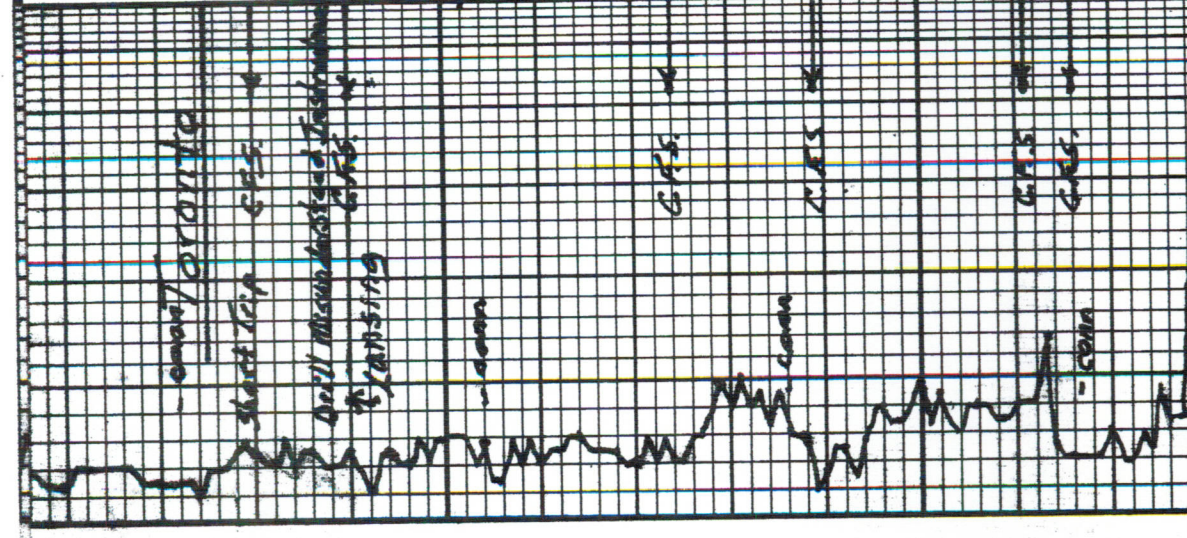
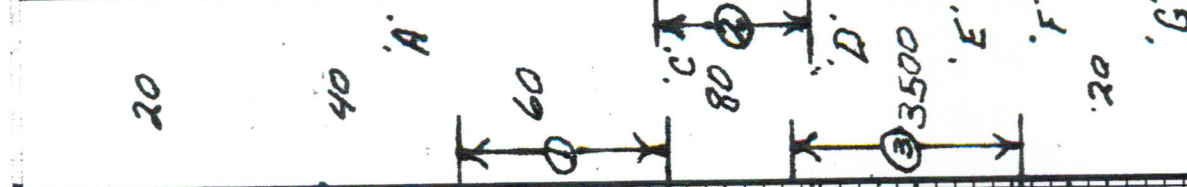


Strap 3488.90  
Board 3486.80



Diff. 2.10  
 Incline @ 3474 - 1°  
 Trilobite Testing  
 DST #1 3452-3474  
 45-45-45-45  
 IF: B.O.B. in 42 min  
 ISI: No blow  
 FF: WK blow incr. to 8 1/4"  
 FSI: No blow  
 Recovery: 20' G.I.P.  
 234' total fluid  
 5' W.C.O. 60% 352 W  
 5% M  
 105.50 MCW 27.0 682W  
 124' MCW 92% W, 8% M  
 MYD: 1697-1686 ft  
 FP: 11-90/93-126 ft  
 BNP: 623-610 ft  
 BH Temp: 117°F.  
 Chlorides: 92,000 ppm  
 DST #2 3473-3489  
 45-45-45-45  
 IF: B.O.B. in 34 1/2 min.  
 ISI: No blow  
 FF: wk blow incr. to 10"  
 FSI: No blow  
 Recovery: 280' Total  
 10' O.I. 126,962.0, 32 M  
 85' Wtr. 51.5. 982W, 42 M

Shibra, grey	LS: wh. to fch. Tr. sl: oil pr. pp & mostly dns N.S.O. B.V. wh. tr.
Shibra	LS: wh. to fch. Tr. sol. vugs Tr. fr. spid. 0.5th in vugs No oil
LS: wh. to cky. fch. dns	
LS: grey fs/f dns sh. grey, brn	
LS: wh. to fch. tr. oil w/ fcs incls. ga pp & v. spid. 0.5th 0.5th - fr. 0.5th pp floating f. strong odor, 20' to 25' sh. brn, grey	
LS: wh. to fch. sl. oil - sub oil pr. pp & fr. 0.5th pp f. 0.5th - 2' to - grey	
LS: wh. to cky. fch. Tr. isol. Vugs Tr. at spid. 0.5th Tr floating f. a. wh.	
LS: wh. to cky. fch. Tr. pp & Tr. at spid. 0.5th 1 pe. oil	
LS: wh. to sl. cky. fch. Tr isol. vugs. N.S.O.	









IF: surface blow size in  
 14 min.  
 Recovery: 2' Mud  
 Hyd: 1850-1821#  
 FP: 17-19#  
 BHP: 18#  
 BHTemp: 106°F

N.S.O.	Sh: gry, brn, grn
	LS: whtn fsh. ln. sh. oil das N.S.O.
	Sh: brn, gry
	LS: whtn fsh. tr. sand emed das. N.S.O. incr. cky
	SS. cr. - frast. md. gn. consol md - ang. lt. O sat pp F.O. No odor
	Sh: brn
	Sh: brn Tr Δ or
	Sh: brn Tr. LS: tn fsh ln dr
	Sh: brn Tr Δ gry
	Dol: whtn fsh - mela sp incl. scat drk spid 25th pp fsh. odor lot of barren
	SAME
	Dol: aa deer str

60 80 3700 20 40 60

